**Course Outline Information**

**DATE:** Sept. 3rd 2011

**SECONDARY SCHOOL:** St. Patrick S.S

**TEACHER:** Mr McCormack

**DEPARTMENT:** Science

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| **Course Title** | Gr. 9 Applied Science |  | **Full Year/Semester** | Semester |
| **Course Code** | SNC1P | **Pre-requisite** | None |
| **Grade & Type** | 9 (Applied) | **Credit Value** | 1.0 |

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| **COURSE DESCRIPTION** |
| The course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems, the structure and properties of elements and compounds, space exploration and the components of the universe, and electricity. |

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| **STRAND/ UNIT TITLES** | **HOURS** | **OVERALL EXPECTATION** |
| UNIT 1: Exploring Matter | 24 | Students develop a concept of matter on the atomic and macroscopic level. Laboratory investigations assist students in understanding that the identity, reactions and uses of substances are based on their individual properties. Reporting in a variety of formats increases literacy skills. Students gain a renewed respect for safety in and outside the laboratory setting. |
| UNIT 2: Sustainable Ecosystems | 22 | Students analyse the impact of human activity on terrestrial or aquatic ecosystems, and assess the  effectiveness of selected initiatives related to environmental sustainability. The cycling of matter in the environment is examined as well as the roles of photosynthesis and respiration in ecosystems. Students are given opportunities to participate in laboratory and/or field studies and to demonstrate safe and appropriate procedures in these situations. |
| UNIT 3: Electrical Applications | 22 | Students gain an understanding of static and current electricity. Students build simple circuits that model circuits used in everyday life. They analyse this form of energy, energy transformations, conservation of energy, and the impact of each. Safety, experimentation and collaboration are part of the focus of this unit. |
| UNIT 4: Space Exploration | 22 | Students explore the solar system and the universe and study applications of space science to better understand how scientists investigate the universe, how the technologies resulting from space exploration transform our lives and where humans fit into the universe. Skills of inquiry, problem solving, collaboration, and communication are developed. |

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| STUDENT EVALUATION CRITERIA | | | | |
| **TERM – 70%** | | **FINAL – 30%** | | **FINAL REPORT CARD GRAD CALCULATION – 100%** |
| 10< RELATIVE EMPHASIS / WEIGHTING<40 | | RELATIVE EMPHASIS WEIGHTING | | **TERM TOTAL + FINAL TOTAL = REPORT CARD MARK** |
| Knowledge/Understanding | 20 | Final Exam | 30 |
| Inquiry/Thinking | 20 |  |  |
| Communication | 15 |  |  |
| Application | 15 |  |  |
| **Term Total** | **70** |  | **30** |

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| ASSESSMENT FORMAT USED | |
| **WRITTEN** | **PERFORMANCE** |
| Tests/Quizzes | Lab/Demos |
| Assignments | Presentations/Dramatic Debates/Skits |
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| RESOURCES | |
| Textbooks | Science 9 (Nelson) |
| Online Student/Parent Portal | [http://snc1p-semester1.wikispaces.com](http://snc1p-semester1.wikispaces.com/) |
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| POLICIES & PROCEDURES | |
| **Plagiarism** | Uncontested proof: mark of zero for the assignment or test |
| **Late Assignments** | Five days leniency, then 10% off per day late; no longer accepted once assignment has been returned to class (usually 2 weeks); exceptions in the event of extreme circumstances. |
| **Missed Work** | A missed test requires a valid note from home that gives good reason for the missed test |
| **Teacher Contacts** | Parents may contact the instructor by leaving a message at his voice mail . Alternatively, you can use the portal above to initiate electronic communication |
| **Reporting Dates** | Midterm reports will be available in mid November and final reports mid February. The instructor will also make available ongoing progress reports |